Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work : Detailed Estimated for Improvements to Medrahalli Main Road, in Shettyhalli Sub Division, Ward No.12

Est.Cost Rs 95.00 Lakhs

Sl.No.	Description of Items	Unit	No.	L.	B.	D	Qty.	Rate	Amount
1	KSRRB 500-3 : Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvagea aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 (Page No.172, Item No. 21.3) /PWD SR 2012-13								
	Medrahalli Main road	Sqm	1	52.00	(7.0+6.0)/2		338.00		
							338.00	65.23	22048.00
	Basic Rate	60.40							
	Area Weightage 8%	4.83							
		65.23							
2	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No. 172/ Item No. 21.2/ PWD SR 2012-13								
	Medrahalli Main road	Sqm	1	553.00	(7.0+6.0)/2		3594.50		
							3594.50	2.38	8541.00
	Basic Rate	2.20							
	Area Weightage 8%	0.18							
		2.38							
3	KSRB 2 - 1.2: Earthwork in surface excavation in Hard Soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and after breaking of clods and neatly dressed as per specifications.Specification No.KBS 2.1(a) / 2.3.1 (Page No.5, Item No. 2.2) PWD SR 2012-13								
	Widening Portion	Cum	1	147.00	(6.3 + 3 .0)/2	0.40	273.42		
							273.42	154.76	42314.00
	Basic Rate	146.00							
	Area Weightage 6%	8.76							
		154.76							
4	KSRRB 400.6.1 : Construction of granular sub-baseby providing close graded material, mixing in a mechanical mix plant at OMC , carriage of mixed Material to work site, spreading in uniform layers with mortor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specification. A.Plant Mix Method. Close graded granual sub-base material as per 400-1 For Grading - I Material. MORTH Chapter 4 (Page No.163, Item No. 20.4.1)								
	Medrahalli Main road	Cum	1	52.00	(7.0 + 6 .0)/2	0.20	67.60		
	Widening Portion		1	147.00	(6.3 + 3 .0)/2	0.20	136.71		
							204.31	981.72	200575.00
	Basic Rate	909.00							
	Area Weightage 8%	72.72							
		981.72							

5	KSRRB M400.17 : Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No.406 (Page No.165, Item No. 20.18)								
	Medrahalli Main road	Cum	1	52.00	(7.0 + 6 .0)/2	0.20	67.60		
	Widening Portion		1	147.00	(6.3 + 3 .0)/2	0.20	136.71		
							204.31	1059.48	216462.00
	Basic Rate	981.00							
	Area Weightage 8%	78.48							
		1059.48							
6	KSRRB 500-4 : Providing and applying primer coat from 7.5 to 9.8 kg and 9.8 to 12.2 kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut back M.C.70 or any other bitumen mixed with diesel at 10kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications low porosity MORTH / Chapter 5 (Page No.172, Item No. 21.4.1)								
	Medrahalli Main road	Cum	1	52.00	(7.0 + 6 .0)/2		338.00		
	Widening Portion		1	147.00	(6.3 + 3 .0)/2		683.55		
							1021.55	68.36	69837.00
	Basic Rate	63.30							
	Area Weightage 8%	5.06							
		68.36							
7	KSRRB 500-10 : Tack Coat:- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom complete as per specifications using bitumen emulsion. MORTH Specification No.503 (Page No.173, Item No. 21.10.1)								
	Widening Portion	Sqm	1	52.00	(6.3 + 3 .0)/2		241.80		
	Medrahalli Main road		1	553.00	(7.0 + 6 .0)/2		3594.50		
							3836.30	10.80	41432.00
	Basic Rate	10.00							
	Area Weightage 8%	0.80							
		10.80							
8	KSRRB 500-11 : Providing and laying bituminous macadam on prepared surface with cushed coarse aggregates as per design mix formula for base/binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack coat with lead upto 1 km including cost of all materials, labour, HOM of machineries complete as per specification MORTH Chapter 5 with 80/100 grade bitumen (Page No.173, Item No. 21.11.1)								
	Medrahalli Main road	Cum	1	52.00	(7.0 + 6 .0)/2	0.05	16.90		
	Widening Portion		1	147.00	(6.3 + 3 .0)/2	0.05	34.18		
							51.08	6106.32	311896.00
	Basic Rate	5654.00							
	Area Weightage 8%	452.32							
		6106.32							
9	KSRRB M500-19 : Providing and laying bituminous concrete with 100-120 TPH batch type HOT mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No.500.9 complete in all respects as per specifications. 30-45mm compacted thickness (Grading II) with 6% Bitumen 80/100 grade using 40-60 HMP. MORTH Specification No.509 (Page No.176, Item No. 21.22.3) PWD SR 2012-13								

	Medrahalli Main road	Cum	1	553.00	(7.0 + 5.0)/2	0.040	143.78		
	Widening Portion		1	147.00	11.00	0.040	64.68		
							208.46	10504.08	2189681.00
	Basic Rate	9726.00							
	Area Weightage 8%	778.08							
		10504.08							
10	KSRRB 400-1.3 Carriage of mixed materials 10 kms for items (Page No.183)								
	Qty vide item No. 8 +9	Cum					259.54		
							259.54	56.70	14716.00
	Basic Rate	52.50							
	Area Weightage 8%	4.20							
		56.70							
11	KSRB 2 - 2.1 : Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.Specification No.KBS 2.1(a) / 2.3.5 (Page No.5, Item No. 2.3)								
	RCC drain	Cum	1	600.00	1.20	1.20	864.00		
	for Culverts		5	6.50	2.40	1.40	109.20		
							973.20	132.50	128949.00
	Basic Rate	125.00							
	Area Weightage 6%	7.50							
		132.50							
12	KSRB 4 - 1.2 : Providing and laying in position plain cement concrete of mix M 10 with OPC cement @ 220 kgs, with 40 mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation and plinth, cost of all materials, labour HOM of machinery curing complete as per specifications. Specification No.KBS 4.1, 4.2 (Page No.12, Item No. 4.2)								
	CC Drain	Cum	1	600.00	1.20	0.15	108.00		
	for Culverts		5	6.50	2.40	0.15	11.70		
							119.70	4053.44	485197.00
	Basic Rate	3824.00							
	Area Weightage 6%	229.44							
		4053.44							
13	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M 20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum fine aggregates @ 0.459 cum, with superplastisiser @ 3 lts confirming to IS 9103 - 1999 Reaffirmed - 2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery curing, complete as per specifications.Specification No.KBS 4.1, 4.6 (Page No.13, Item No. 4.11)								
	Walls	Cum	2x1	600.00	0.15	1.00	180.00		
	Bed		1	600.00	0.90	0.15	81.00		
	Walls		5x2	6.50	(0.75+0.45)/2	1.00	39.00		
	Bed		5	6.50	1.20	0.15	5.85		
	Covering Slab		5	6.50	2.00	0.23	14.95		
							320.80	5142.06	1649573.00
	Basic Rate	4851.00							
	Area Weightage 6%	291.06							
		5142.06							

14	KSRB 4.9.2 : Providing TMT steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No.KBS 4.6.3 (Page No.19, Item No. 4.46)								
		Qtl					160.40		
							160.40	7187.86	1152933.00
	Basic Rate	6781.00							
	Area Weightage 6%	406.86							
		7187.86							
15	KSRB 4-6.9 : Providing and removing centering, shuttering, strutting, propping etc.,for edges of slabs and breaks in floor, cills, plinth including cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (Page No.17, Item No. 4.31)								
	Walls	Sqm	2x2	600.00		1.00	2400.00		
	Culvert Walls		5x2	6.50		1.00	65.00		
							2465.00	555.44	1369160.00
	Basic Rate	524.00							
	Area Weightage 6%	31.44							
		555.44							
16	Providing and laying reinforce cement precast slabs of mix CC 1:1.5:3 using 20mm & down size graded Granite metal using HYSD 10mm dia steel @ 100mm c/c both ways & complete as per specifications								
		Sqm	1	600.00	0.90		540.00		
							540.00	1963.60	1060344.00
	Approved Rate of precast slab	1963.60							
	Data rate for precast slab of 100mm th								
17	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete of size 450 x 200 x 400mm (Page No.28, Item No. 5.29.1)								
		No					1350.00		
							1350.00	289.44	390744.00
	Basic Rate	268.00							
	Area Weightage 8%	21.44							
		289.44							
18	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after throughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. (Page No.129, Item No.15.80)								
	for kerb	Sqm	1	600.00		0.50	300.00		
							300.00	20.14	6042.00
	Basic Rate	19.00							
	Area Weightage 6%	1.14							
		20.14							
19	KSRRB 800-1 : Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. (Page No.192, Item No. 24.1)								
	for kerb	Sqm	1	600.00		0.50	300.00		
							300.00	45.90	13769.00
	Basic Rate	43.30							
	Area Weightage 6%	2.60							
		45.90							
20	Disposal of debris to the final plce of disposal with all lead and lift and as directed by the Engineer in charge of the work lead 10 km a) Basic rate for haulage of materials as per item No.17.4/KSRRB M100-4.1.....Rs.2.00 Tonne/Km b) average earth of work 1.28 Tonne/Km for Rs.2.00/km c) Add loading and unloading item No.17.1 KSRRB M 100-1 Rs.62.20 (Page No.148/Item No.18.57/1 / PWD SR 2012-13)								

2

	Qty. vide item No.3 + 11	cum					1246.62		
	Qty. Limited to						**1246.62**	100.35	125103.00
	Basic Rate	25.60							
	Loading and unloading charges	67.32							
		92.92							
	Area Weightage 8%	7.43							
		100.35							
21	Miscellaneous and other unforseen charges								684.00
								Total	9500000.00
(Rupees Ninty five Lakhs Only)									

CERTIFICATE

1 The work sport has been inspected and the work found to be necessary
2 This estimate is prepared as per the PWD S.R of 2012-13
3 The provisions made in estimate are adequate and essential
4 This area comes under BBMP limits

Asst. Engineer
Ward No-12

Asst.Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

A/S

ನಂ. JC(DH)AS ಫೈಲ್/12-13 ದಿನಾಂಕ : 11/10/12
ರೂ. 95.00 lakhs (Rupees ninty-five lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
Page No.43
Sl.No.43
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ಮೇಲೆ ಉಲ್ಲೇಖಿತ ನಿಬಂಧನೆಗಳ ಅಧೀನಕ್ಕೆ ಒಳಪಟ್ಟು ತಾಂತ್ರಿಕ ಸಮಿತಿಯ ಶಿಫಾರಸ್ಸಿನಂತೆ ಕಾರ್ಯಾದೇಶ ನೀಡಲಾಗಿದೆ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ/101/12-13, ದಿ: 06/09/12.

ನಂ/ಸಂ. ದಿನಾಂಕ/ದಿನಾಂಕ :
ರೂ/ರೂ.
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

No 52/12-13

ನಂ/ಸಂ/ಫೈಲ್/
ನಂ. 52/12-13 ದಿನಾಂಕ : 17-10-2012.
ರೂ. 95.00 ಲಕ್ಷಗಳು (ರೂ: ತೊಂಭತ್ತೈದು ಲಕ್ಷಗಳಷ್ಟೇ ಮಾತ್ರ)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.